

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/008701

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/195 A61K31/216 A61K31/197
/(A61K31/216,31:197),(A61K31/216,31:195)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBASE, BIOSIS, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | FIELD MARK J ET AL: "Gabapentin and the neurokinin1 receptor antagonist CI-1021 act synergistically in two rat models of neuropathic pain." JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol. 303, no. 2, November 2002 (2002-11), pages 730-735, XP002294267 ISSN: 0022-3565 abstract page 733; figure 3 page 734; figure 4 | 21,31, 32,34,35 |
| X | WO 01/24792 A (HUGHES JOHN ; SINGH LAKHBIR (GB); WARNER LAMBERT CO (US)) 12 April 2001 (2001-04-12) page 12, lines 1-10 figures 2a-2f,3a-3b | 21,31, 32,34,35 |
| | ----- -/-- | |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

30 August 2004

Date of mailing of the international search report

15/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rodriguez-Palmero, M

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/008701

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | WO 01/01983 A (SINGH LAKHBIR ; WARNER LAMBERT CO (US); BRUMMEL ROGER N (US)) 11 January 2001 (2001-01-11) page 2, lines 11-15 figures 1,4 | 21,31, 32,34,35 |
| X | WO 03/000642 A (NICOX SA ; DEL SOLDATO PIERO (IT); ONGINI ENNIO (IT)) 3 January 2003 (2003-01-03) page 1, paragraph 1 page 13, lines 1,2 page 18, paragraph 3 - paragraph 6 page 30; example 3 | 21,31, 32,34,35 |
| X | DE SARRO G ET AL: "Gabapentin potentiates the antiseizure activity of certain anticonvulsants in DBA/2 mice." EUROPEAN JOURNAL OF PHARMACOLOGY. 22 MAY 1998, vol. 349, no. 2-3, 22 May 1998 (1998-05-22), pages 179-185, XP002291581 ISSN: 0014-2999 page 182; tables 2,3 | 21,31, 32,34,35 |
| X | WO 01/37832 A (AVENTIS PHARMA SA) 31 May 2001 (2001-05-31) page 5, table claims | 21,31, 32,34,35 |
| X | WO 96/37202 A (ALZA CORP) 28 November 1996 (1996-11-28) page 5, lines 19-21 | 30 |
| X | CHOVET MARIA: "Gastrointestinal functional bowel disorders: New therapies" CURRENT OPINION IN CHEMICAL BIOLOGY, vol. 4, no. 4, August 2000 (2000-08), pages 428-432, XP001155578 ISSN: 1367-5931 page 429, column 2, paragraph 2 page 430, column 2, paragraphs 3,5 | 1-29, 31-36 |
| X | WO 99/08670 A (BUENO LIONEL ; CHOVET MARIA (FR); DIOP LAURENT (FR); LITTLE HILARY J) () 25 February 1999 (1999-02-25) page 1, lines 4-8 page 2, line 23 - page 3, line 26 | 1-29, 31-36 |
| | -/-- | |

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/008701

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| A | KATZUNG BG: "Basic & Clinical Pharmacology, Eighth edition" 2001, LANGE MEDICAL BOOKS/MCGRAW-HILL, UNITED STATES OF AMERICA, XPO02291582 page 457, column 2, last paragraph - page 458, column 2, paragraph 1 page 459, column 2, paragraph 3 | 21,31, 32,34,35 |
| P,X | WO 03/070237 A (TAYLOR CHARLES PRICE JR ; WARNER LAMBERT CO (US)) 28 August 2003 (2003-08-28) page 2, lines 23-32 page 81, line 31 - page 82, line 8 page 84, line 16 - page 85, line 17 | 21,31, 32,34,35 |
| E | WO 2004/054560 A (WESTBROOK SIMON LEMPRIERE ; TAYLOR CHARLES PRICE JR (US); WARNER LAMBE) 1 July 2004 (2004-07-01) page 6, paragraph 4 page 15, last paragraph - page 16, paragraph 6 claims 1,2,16 | 21,31, 32,34,35 |
| A | FELIX R: "Voltage-dependent Ca ²⁺ channel 'alpha12'delta' auxiliary subunit: Structure, function and regulation" RECEPTORS AND CHANNELS 1999 NETHERLANDS, vol. 6, no. 5, 1999, pages 351-362, XPO09034843 ISSN: 1060-6823 page 359, column 2, paragraph 2 - page 361, column 2, paragraph 1 | 1-29, 31-36 |

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/008701

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-20 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/008701

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|--|--|
| WO 0124792 | A | 12-04-2001 | AT 269072 T AU 1696201 A AU 7663300 A BG 106548 A BR 0014598 A CA 2385930 A1 CN 1387434 T CZ 20021116 A3 DE 60011650 D1 EA 4266 B1 EE 200200185 A WO 0124792 A1 WO 0124791 A1 EP 1221950 A1 EP 1233766 A1 HR 20020286 A1 HU 0203466 A2 JP 2003510355 T JP 2003510356 T NO 20021625 A NZ 517949 A PL 357498 A1 SK 4542002 A3 TR 200200913 T2 ZA 200202675 A | 15-07-2004 10-05-2001 10-05-2001 29-12-2002 11-06-2002 12-04-2001 25-12-2002 14-05-2003 22-07-2004 26-02-2004 15-04-2003 12-04-2001 12-04-2001 17-07-2002 28-08-2002 31-08-2003 28-02-2003 18-03-2003 18-03-2003 05-04-2002 29-08-2003 26-07-2004 11-09-2003 23-09-2002 15-04-2003 |
| WO 0101983 | A | 11-01-2001 | AU 5753900 A BR 0012058 A CA 2373953 A1 EP 1196160 A1 JP 2003503453 T WO 0101983 A1 | 22-01-2001 14-05-2002 11-01-2001 17-04-2002 28-01-2003 11-01-2001 |
| WO 03000642 | A | 03-01-2003 | IT MI20011308 A1 CA 2450538 A1 WO 03000642 A2 EP 1417165 A2 | 23-12-2002 03-01-2003 03-01-2003 12-05-2004 |
| WO 0137832 | A | 31-05-2001 | FR 2801217 A1 AT 245421 T AU 2177401 A CA 2390787 A1 DE 60004093 D1 DE 60004093 T2 DK 1235573 T3 EP 1235573 A2 ES 2198369 T3 WO 0137832 A2 JP 2003514858 T PT 1235573 T US 6350768 B1 | 25-05-2001 15-08-2003 04-06-2001 31-05-2001 28-08-2003 03-06-2004 24-11-2003 04-09-2002 01-02-2004 31-05-2001 22-04-2003 28-11-2003 26-02-2002 |
| WO 9637202 | A | 28-11-1996 | US 5674895 A AU 695194 B2 AU 5639296 A AU 718849 B2 AU 9052298 A BE 1009462 A3 | 07-10-1997 06-08-1998 11-12-1996 20-04-2000 14-01-1999 01-04-1997 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2004/008701

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|---------------------|
| WO 9637202 | A | CA 2218714 A1 | 28-11-1996 |
| | | CH 690955 A5 | 15-03-2001 |
| | | DE 19681389 T0 | 23-04-1998 |
| | | FR 2734483 A1 | 29-11-1996 |
| | | GB 2318055 A ,B | 15-04-1998 |
| | | IT T0960427 A1 | 21-11-1997 |
| | | JP 11505264 T | 18-05-1999 |
| | | NL 1003185 C2 | 03-12-1996 |
| | | NL 1003185 A1 | 25-11-1996 |
| | | NZ 307116 A | 29-03-1999 |
| | | US 6124355 A | 26-09-2000 |
| | | WO 9637202 A1 | 28-11-1996 |
| | | US 6262115 B1 | 17-07-2001 |
| | | US 2004037881 A1 | 26-02-2004 |
| | | US 2004043943 A1 | 04-03-2004 |
| | | US 5840754 A | 24-11-1998 |
| | | US 2001005728 A1 | 28-06-2001 |
| | | US 5912268 A | 15-06-1999 |
| WO 9908670 | A 25-02-1999 | AU 8668598 A | 08-03-1999 |
| | | AU 9293098 A | 08-03-1999 |
| | | BR 9812133 A | 18-07-2000 |
| | | CA 2297163 A1 | 25-02-1999 |
| | | EP 1009399 A1 | 21-06-2000 |
| | | HU 0004551 A2 | 28-05-2001 |
| | | JP 2001515033 T | 18-09-2001 |
| | | NO 20000786 A | 17-02-2000 |
| | | NZ 502729 A | 25-10-2002 |
| | | PL 338705 A1 | 20-11-2000 |
| | | TW 570794 B | 11-01-2004 |
| | | WO 9908670 A1 | 25-02-1999 |
| | | WO 9908671 A1 | 25-02-1999 |
| | | US 6127418 A | 03-10-2000 |
| | | US 6242488 B1 | 05-06-2001 |
| | | US 2001014698 A1 | 16-08-2001 |
| | | ZA 9807493 A | 07-07-1999 |
| WO 03070237 | A 28-08-2003 | WO 03070237 A1 | 28-08-2003 |
| | | US 2003199567 A1 | 23-10-2003 |
| WO 2004054560 | A 01-07-2004 | WO 2004054560 A1 | 01-07-2004 |
| | | CA 2451267 A1 | 13-06-2004 |
| | | WO 2004054577 A1 | 01-07-2004 |
| | | WO 2004054559 A1 | 01-07-2004 |
| | | WO 2004054563 A1 | 01-07-2004 |
| | | WO 2004054565 A1 | 01-07-2004 |
| | | WO 2004054564 A1 | 01-07-2004 |
| | | WO 2004054566 A1 | 01-07-2004 |
| | | US 2004138305 A1 | 15-07-2004 |
| | | US 2004132636 A1 | 08-07-2004 |
| | | US 2004143014 A1 | 22-07-2004 |